

Appl. No. 10/805,465
Amdt. Dated Sep. 14, 2005
Reply to Office Action of June 14, 2005

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An ~~In-Plane Switching Liquid Crystal Display (IPS LCD)~~ in-plane switching liquid crystal display, comprising:

a first substrate comprising a first transparent sheet;

a second substrate comprising in turn a second transparent sheet, an insulating layer and an alignment film with an alignment structure, and further comprising a plurality of pixel electrodes and common electrodes parallel to each other and a plurality of thin film transistor transistors formed between the second transparent sheet and the insulating layer; and

a liquid crystal layer interposed between the first and the second substrates[[:]].

~~Wherein the alignment film has an alignment structure thereon.~~

Claim 2 (currently amended): The ~~IPS LCD~~ in-plane switching liquid crystal display of claim 1, wherein the first substrate further comprises a color filter layer formed on the first transparent sheet.

Claim 3 (currently amended): The ~~IPS LCD~~ in-plane switching liquid crystal display of claim 1, wherein the alignment film is made of polyimide.

Claim 4 (currently amended): The ~~IPS LCD~~ in-plane switching liquid crystal display of claim 1, wherein the alignment film is made of polyethylene.

Appl. No. 10/805,465
Amdt. Dated Sep. 14, 2005
Reply to Office Action of June 14, 2005

Claim 5 (currently amended): The ~~IPS-LCD~~ in-plane switching liquid crystal display of claim 1, wherein the alignment film is made of polystyrene.

Claim 6 (currently amended): A method for manufacturing an ~~In-Plane Switching Liquid Crystal Display (IPS-LCD)~~ in-plane switching liquid crystal display, comprising the steps of:

providing a first transparent sheet and a second transparent sheet facing [[to]] each other;

attaching a color filter layer on the first transparent sheet to form a first substrate;

forming a plurality of pixel electrodes and common electrodes parallel to each other and a plurality of thin film transistor transistors on the second transparent sheet;

attaching an insulating layer on the pixel and common electrodes and the thin film transistor transistors;

forming an alignment film with an alignment structure on the insulating layer to form a second substrate;

assembling the first substrate and the second substrate to form a liquid crystal box; and

injecting liquid crystal molecules into the liquid crystal box to form the IPS-LCD in-plane switching liquid crystal display.

Claim 7 (original): The method of claim 6, wherein the alignment film with the alignment structure is formed by a rubbing process.

Claim 8 (original): The method of claim 6, wherein the alignment film

Appl. No. 10/805,465
Amdt. Dated Sep. 14, 2005
Reply to Office Action of June 14, 2005

with the alignment structure is formed by an ultraviolet alignment.

Claim 9 (original): The method of claim 6, wherein the alignment film with the alignment structure is formed by a lithographic alignment.

Claim 10 (currently amended): An ~~In-Plane-Switching-Liquid-Crystal Display (IPS-LCD)~~ in-plane switching liquid crystal display, comprising:

a first substrate comprising a first transparent sheet;

a second substrate comprising in turn a second transparent sheet, an insulating layer and an alignment film, and further comprising a plurality of pixel electrodes and common electrodes parallel to each other and a plurality of thin film transistor transistors formed between the second transparent sheet and the insulating layer; and

a liquid crystal layer interposed between the first and the second substrates;

wherein

~~only one~~ the alignment film is applied to only one of said first substrate and said second substrate, directly facing faces said liquid crystal layer.

Claim 11 (new): The in-plane switching liquid crystal display of claim 10, wherein the first substrate further comprises a color filter layer formed on the first transparent sheet.

Claim 12 (new): The in-plane switching liquid crystal display of claim 10, wherein the alignment film is made of polyimide.

Claim 13 (new): The in-plane switching liquid crystal display of claim 10, wherein the alignment film is made of polyethylene.

Appl. No. 10/805,465
Amdt. Dated Sep. 14, 2005
Reply to Office Action of June 14, 2005

Claim 14 (new): The in-plane switching liquid crystal display of claim 10, wherein the alignment film is made of polystyrene.